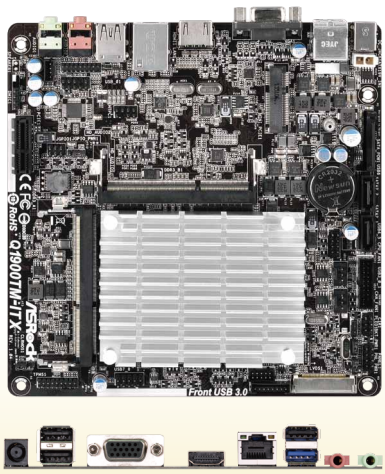
Q1900TM-ITX

Intel® Quad-Core Processor J1900 + Thin Mini-ITX Motherboard

Thin Mini-ITX Motherboard For AIO

ASRock



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Product Brief

- Intel® Quad-Core Processor J1900 + Thin Mini-ITX Motherboard
- ASRock DuraCap (2.5 x longer life time)
- Supports DDR3/DDR3L 1333 memory, 2 SO-DIMM slots
- 1 PCIe 2.0 x1, 1 mini-PCIe
- Graphics Output Options : D-Sub, HDMI, LVDS
- Built-in Intel® 7th generation (Gen 7) graphics, DirectX 11.0, Pixel Shader 5.0
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
- 2 SATA2, 3 USB 3.0 (2 Front, 1 Rear), 7 USB 2.0 (5 Front, 2 Rear)
- 1 x COM Port Header, 1 x DC-In Jack (Compatible with 19V power adapter)
- Supports A-Tuning, XFast LAN, XFast RAM, USB Key

Detail Specification

Platform	- Thin Mini-ITX Form Factor - ASRock DuraCap (2.5 x longer life time) (100% Japan-made high-quality conductive polymer capacitors) - High Density Glass Fabric PCB
Unique Feature	ASRock Full Spike Protection ASRock Cloud ASRock APP Shop
CPU	- Intel® Quad-Core Processor J1900 (2 GHz)
Memory	- Dual Channel DDR3/DDR3L Memory Technology - 2 x DDR3/DDR3L SO-DIMM Slots - Supports DDR3/DDR3L 1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB
Expansion Slot	- 1 x PCI Express 2.0 x1 Slot - 1 x mini-PCI Express Slot (Bluetooth function in WiFi module is not supported)
Graphics	- Intel® 7th generation (Gen 7) graphics (Supports Intel® Quick Sync Video) - DirectX 11.0, Pixel Shader 5.0 - Three graphics output options: D-Sub, HDMI and LVDS - Supports HDMI with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports LVDS with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HDCP with HDMI Port - Supports Full HD 1080p Blu-ray (BD) playback with HDMI Port
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) * To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Qualcomm® Atheros® AR8171 - Supports Qualcomm® Atheros® Security Wake On Internet Technology - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x DC Jack (Compatible with the 19V power adapter) - 1 x D-Sub Port - 1 x HDMI Port - 3 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Port (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Microphone / Front Speaker (Supports SPDIF Optical)
Storage	- 2 x SATA2 3.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug

Connector	- 1 x Backlight Power Selection Jumper - 1 x Panel Power Selection Jumper - 1 x Backlight Control Header - 1 x Digital Input / Output Pin Header - 1 x Digital Input / Output Power Selection Jumper - 1 x Home Theater PC Header - 1 x Monitor Switch Header - 1 x Digital MIC Header - 1 x 3W Audio AMP Output Wafer Header - 1 x LVDS Connector - 1 x CIR Header - 1 x COM Port Header - 1 x Power LED Header - 1 x TPM Header - 1 x CPU Fan Connector (4-pin) - 1 x Chassis Fan Connector (4-pin) - 1 x SATA Power Connector - 1 x Front Panel Audio Connector - 3 x USB 2.0 Headers (Support 5 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header by Etron EJ188 (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports Plug and Play - ACPI 1.1 compliant wake up events - SMBIOS 2.3.1 support
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Kloudian Orbweb.ME Professional (Win 8.1 / 7)
Software and UEFI	Software - ASRock A-Tuning - ASRock USB Key - ASRock XFast LAN - ASRock XFast RAM - ASRock Restart to UEFI UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shields - 2 x SATA Data Cables - 1 x SATA 1 to 2 Power Cable - 1 x WiFi Module Screw

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

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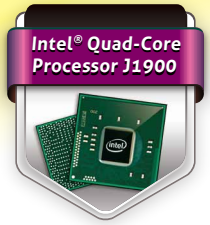


Intel® Quad-Core Processor J1900 brings whole new computing experiences to life with improved performance, lower power consumption, and new multimedia capabilities.

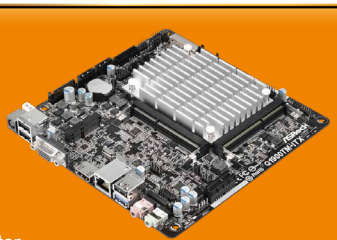
Compared with other counterparts that support DDR3 low-voltage SO-DIMM only, this motherboard is capable of supporting both standard and low-voltage SO-DIMM, therefore provides more DRAM compatibilities.

ASRock DuraCaps feature 100% all solid Japan made high quality conductive polymer capacitors, which can extend the motherboard's lifespan up to 2.5 times longer.

This motherboard supports not only Windows 8/8.1 but also Windows 7 32-bit/64-bit. Therefore, users have more options to install their operating systems.

The DC-In jack is compatible with the 19V power adapter. Without the bulky power supply unit, this unique design allows the motherboard to fit in compact chassis.

Supports DC Adapter
(DC Adapter is not included)



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ASRock Cloud* technology makes your mobile devices connect to your PC seamlessly! We offer a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is $49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.

* OrbWeb ME is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/feature/cloud/index.html

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ASRock App Shop

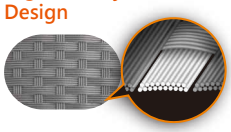
We provide various apps and support software for users to download. You can easily optimize your system and keep your motherboard up to date with ASRock APP Shop.

High Density Glass Fabric PCB

ASRock motherboards feature a new High Density Glass Fabric PCB design that reduces the gaps between the PCB layers to protect the mother-board against electrical shorts caused by humidity.

Short Circuit Protection Level

High Density Design



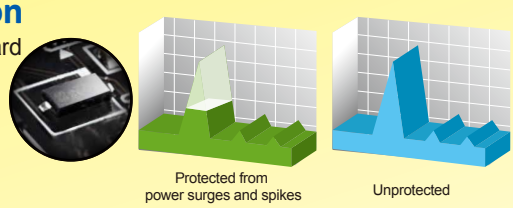
Traditional

FULL SPIKE PROTECTION

Surge Protection
Lightning Protection
ESD Protection

Surge Protection

Protects the motherboard from excessive surges from the power supply unit.



Lightning Protection

The onboard LAN chip is protected against sudden and violent voltage spikes caused by lightning.

ESD Protection

USB Added ICs to protect the onboard USB ports from electrostatic discharges.

LAN Prevents the onboard LAN from being damaged by electrostatic discharges.

MOSFETs MOSFETs in critical areas use a special design for protecting them from electrostatic discharge during the installation process.